

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/02625

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B21D 22/00; B23P 15/14; B21K 1/30; B21D 53/26

US CL : 72/352, 353.2, 358; 29/893.3, 893.34, 893.36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 72/352, 353.2, 358; 29/893.3, 893.34, 893.36

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
72/354.2, 354.6

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/078876 A1 (BISHOP INNOVATION LIMITED) 10 October 2002 (10.10.2002), figures 12-14 & 20-24.	11, 20
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Y		1-10, 12-19
Y	US 4,709,569 A (SABROFF et al) 01 December 1987 (01.12.1987), column 3, lines 32-63.	1-10, 12-19
Y	US 5,787,753 A (DOUGHERTY) 04 August 1998 (04.08.1998), column 6, lines 47-53.	5, 16
A	US 4,856,167 A (SABROFF et al) 15 August 1989 (15.08.1989), column 2, lines 55-68 & column 7-8, lines 64-3.	1-20
A	US 2004/0192488 A1 (PRUCHER) 30 September 2004 (30.09.2004), figures 6-7.	1-20

<input type="checkbox"/> Further documents are listed in the continuation of Box C.		<input type="checkbox"/> See patent family annex.	
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>		<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>	
<p>Date of the actual completion of the international search</p> <p>02 May 2005 (02.05.2005)</p>		<p>Date of mailing of the international search report</p> <p>10 JUN 2005</p>	
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